

DAQ / Online Status

Arnd Meyer
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- Running with **large deadtime** (up to ~50%) during the last few days before the shutdown
 - Large event size (parts of Silicon in read all mode, central ShowerMax misconfigured, CMX "noise", COT occupancy, ...) → well above 300kB
 - There are several limitations that hit us normally at L2A rates of ~350-400Hz (readout, event builder if atypical event size from some component, data logging, ...)
 - Very inefficient operationally
- **Have to think about simplified procedure for manual/automatic prescaling**
 - Currently have to Pause the run for L1, Halt for L2, many windows and clicks to change prescales
 - Inefficient for more than a few triggers
- **Observed some number of **create CPU hangs** / **suspended "Messenger"** tasks**
 - Finally managed to catch this "real-time". Bug in front-end code → fixed
- **Sourcing CHA**
 - Revived code; on Sunday successfully took data for 15 wedges (planned 24)
- **Run Control / Error handler**
 - Automated Halt-Recover-Run sequence works
 - outstanding "feature": if the same error occurs twice, no HRR will be issued
- **Level 2 sync errors reported to run control**

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- **Level 3**
 - 64 new PCs (processing nodes) are installed and integrated into the L3 farm
 - 60 additional PCs coming next week
 - Disconnect test of B0 on Oct 16